

JAPAN

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APPLICATION NO.	FILING DATE		FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.		
10/500,736	•	07/01/2004	Yoshifumi Kachi	39.025-AG	6690		
29453	7590	08/31/2005	•	EXAMINER			
JUDGE PATENT FIRM				PAIK, SA	PAIK, SANG YEOP		
RIVIERE SI	HUKUGA	.WA 3RD FL.					
3-1 WAKA	MATSU-0	CHO		ART UNIT	PAPER NUMBER		
NISHINOMIYA-SHI, HYOGO, 662-0035				3742			

DATE MAILED: 08/31/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

			SP					
	Application No.	Applicant(s)						
	10/500,736	KACHI ET AL.						
Office Action Summary	Examiner	Art Unit						
	Sang Y. Paik	3742						
The MAILING DATE of this communication appears on the cover sheet with the correspondence address								
Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM								
THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply if NO period for reply is specified above, the maximum statutory period was reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	86(a). In no event, however, may a reply be tin within the statutory minimum of thirty (30) day ill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this com D (35 U.S.C. § 133).	nmunication.					
Status								
1) Responsive to communication(s) filed on	_•							
2a) This action is FINAL . 2b) ⊠ This	action is non-final.							
,	3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is							
closed in accordance with the practice under E	x parte Quayle, 1935 C.D. 11, 45	53 O.G. 213.						
Disposition of Claims								
4) Claim(s) <u>1-8</u> is/are pending in the application.								
4a) Of the above claim(s) is/are withdraw	vn from consideration.							
5) Claim(s) is/are allowed.								
6) Claim(s) <u>1-8</u> is/are rejected.								
7) Claim(s) is/are objected to.	alastian requirement							
8) Claim(s) are subject to restriction and/or	election requirement.							
Application Papers								
9)☐ The specification is objected to by the Examiner.								
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.								
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).								
Replacement drawing sheet(s) including the correcti	,		• •					
11) The oath or declaration is objected to by the Ex	aminer. Note the attached Office	Action of form PTC	J-152.					
Priority under 35 U.S.C. § 119								
 12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the prior 	s have been received. s have been received in Applicati	on No	tage					
application from the International Bureau (PCT Rule 17.2(a)).								
* See the attached detailed Office action for a list of the certified copies not received.								
Attachment(s)								
Notice of References Cited (PTO-892)	4) Interview Summary							
2)	Paper No(s)/Mail Da 5) Notice of Informal P	ate atent Application (PTO-	152)					
Paper No(s)/Mail Date	6) Other:							

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DETAILED ACTION

Claim Rejections - 35 USC § 112

1. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

2. Claims 1-8 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

In claim 1, there is no proper antecedent basis for "the maximum outer diameter" and "the minimum outer diameter".

Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 4. Claims 1, 2, 3 and 5 are rejected under 35 U.S.C. 102(e) as being anticipated by Ito et al (US 6,465,763).

Ito shows the device claimed including a ceramic substrate having a resistive heating element provided either on a surface or inside the ceramic substrate with a diameter having the diameter of 150mm or 200mm with the side of the ceramic substrate having the surface roughness of .1 to 200microns. Having such roughness would extend the outer diameter to either

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150.2mm or 200.2mm which is yields the difference of .13% or .1%, respectively, which is meets the claimed ratio of .8% or less. Ito also shows that that the ceramic substrate is made of aluminum nitride with the resistive heating element made of tungsten or molybdenum.

Claim Rejections - 35 USC § 103

- 5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 6. Claims 4, 6, 7 and 8 are rejected under 35 U.S.C. 103(a) as being unpatentable over Ito et al (US 6,465,763) in view of Yoshida et al (US 6,080,970) or Kawada et al (US 5,66,260).

Ito shows the device claimed except having a plasma electrode.

Yoshida and Kawada show it is known in the art to provide a ceramic heater with an electrode when heating a semiconductor wafer to either provide the plasma heating and or the electrostatic attraction force. In view of Yoshida or Kawada, it would have been obvious to one of ordinary skill in the art to adapt Ito with an electrode to improve the heating and treating process of an object such as a wafer by creating the plasma or the electrostatic force for uniform heating across the wafer.

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Sang Y. Paik whose telephone number is 571-272-4783. The examiner can normally be reached on M-F (9:00-4:00) First Friday Off.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Robin Evans can be reached on 571-272-4777. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Sang Prim

Sang Y Paik Primary Examiner Art Unit 3742 Page 4

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